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TITLE: Food products e.g. milk homogeniser - body with closure device forming ring-shaped circular slit through which product passes, and is subject to combined swirling-pulsation

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PATENT-FAMILY:

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SU 1688809 A1	November 7, 1991	N/A	002	A01J 011/16

APPLICATION-DATA:

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ABSTRACTED-PUB-NO: SU 1688809A

BASIC-ABSTRACT:

Body (1) has closure device (2) forming circular slit (3), linked to inner toroidal space (4). Closure (2) is cylindrical or conical axially movable deflector; radial section of slit is ring shaped. Body and deflector are combined, with slit passing via toroidal space.

As product enters it goes via circular slit (3) into toroidal space (4) to create swirling flow. Formation of localised velocity pulsation is linked with breakdown of swirls and with rotation of swirls about their own axes as well as round axis of homogeniser. This pulsation leads to deformation of dispersed particles causing them to split, to a degree determined by number of cavities, geometrical size, etc.

USE/ADVANTAGE - In food industry, as homogeniser for liquid products, e.g. milk. Specific productivity is increased and construction simplified.

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CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: FOOD PRODUCT MILK HOMOGENISE BODY CLOSURE DEVICE FORMING RING SHAPE CIRCULAR SLIT THROUGH PRODUCT PASS SUBJECT COMBINATION SWIRL PULSATE

DERWENT-CLASS: D13 P13

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